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1 Optimizing the end-to-end performance of reliable flows over wireless links 100%
Reiner Ludwig , Almudena Konrad , Anthony D. Joseph , Randy H. Katz
Wireless Networks March 2002
Volume 8 Issue 2/3
Pure end-to-end error recovery fails as a general solution to optimize throughput when wireless links form parts of the end-to-end path. It can lead to decreased end-to-end throughput, an unfair load on best-effort networks, and a waste of valuable radio resources. Link layer error recovery over wireless links is essential for reliable flows to avoid these problems. We demonstrate this through an analysis of a large set of block erasure traces measured in different real-world radio environments, ...

2 Dealing with high speed links and other measurement challenges: A method to compress and anonymize packet traces 100%
Markus Peuhkuri
Proceedings of the First ACM SIGCOMM Workshop on Internet Measurement Workshop November 2001

Data volume and privacy issues are one of problems related to large-scale packet capture. Utilizing flow nature of Internet traffic can reduce data volume. Removing sensitive information such as IP addresses enhances privacy. Our method makes possible to have same replacement value for given IP address even if capture location or time is different.

3 Traffic characterization: Characteristics of fragmented IP traffic 100% on internet links

 Colleen Shannon , David Moore , k claffy
Proceedings of the First ACM SIGCOMM Workshop on Internet Measurement Workshop November 2001

Fragmented IP traffic is a unique component of the overall mix of traffic on the Internet. Many assertions about the nature and extent of fragmented traffic are anecdotal rather than empirical. In this paper we examine the causes and attributes of measured fragment traffic and contrast those results with commonly cited beliefs. In particular, the effects of NFS, streaming media, networked video games, and tunneled traffic are quantified, and we estimate the prevalence of packet fragmentation due ...

4 Trajectory sampling for direct traffic observation 100%

 N. G. Duffield , Matthias Grossglauser
IEEE/ACM Transactions on Networking (TON) June 2001
Volume 9 Issue 3

Traffic measurement is a critical component for the control and engineering of communication networks. We argue that traffic measurement should make it possible to obtain the spatial flow of traffic through the domain, i.e., the paths followed by packets between any ingress and egress point of the domain. Most resource allocation and capacity planning tasks can benefit from such information. Also, traffic measurements should be obtained without a routing model and without knowledge of netw ...

5 QoS of internet access with GPRS 100%

 Dirk Staehle , Kenji Leibnitz , Konstantin Tsipotis
Proceedings of the 4th ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems July 2001

In this paper we examine the effects of Internet traffic on the quality of service (QoS) in GPRS wireless networks. With a stochastic source traffic model describing the user behavior, we will derive

subjective and objective quality of service measures in terms of WWW downloading time and the transmission bandwidths on TCP and TBF level. Comparing the obtained values with wireline network modems and ISDN yields a slowdown factor which indicates the subjective degradation that the wireless use ...

6 What TCP/IP protocol headers can tell us about the web 100%

 F. Donelson Smith , Félix Hernández Campos , Kevin Jeffay , David Ott
ACM SIGMETRICS Performance Evaluation Review , Proceedings of the international conference on on Measurement and modeling of computer systems June 2001
Volume 29 Issue 1

We report the results of a large-scale empirical study of web traffic. Our study is based on over 500 GB of TCP/IP protocol-header traces collected in 1999 and 2000 (approximately one year apart) from the high-speed link connecting The University of North Carolina at Chapel Hill to its Internet service provider. We also use a set of smaller traces from the NLANR repository taken at approximately the same times for comparison. The principal results from this study are: (1) empirical data suita

...

7 TCP/IP data transfer over the DECT air interface with 100%

 multibearer capability and support of asymmetric flows
Andrea Baiocchi
Wireless Networks January 2001
Volume 7 Issue 1

8 Optimizing software performance for IP frame reassembly in an 100%

 integrated architecture
Peter M. Ewert , Naraig Manjikian
Proceedings of the second international workshop on Software and performance September 2000

9 Trajectory sampling for direct traffic observation 100%
 N. G. Duffield , M. Grossglauser
ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication August 2000
Volume 30 Issue 4
Traffic measurement is a critical component for the control and engineering of communication networks. We argue that traffic measurement should make it possible to obtain the spatial flow of traffic through the domain, i.e., the paths followed by packets between any ingress and egress point of the domain. Most resource allocation and capacity planning tasks can benefit from such information. Also, traffic measurements should be obtained without a routing model and without knowledge of netwo ...

10 A unified header compression framework for low-bandwidth links 100%
 Jeremy Lilley , Jason Yang , Hari Balakrishnan , Srinivasan Seshan
Proceedings of the sixth annual international conference on Mobile computing and networking August 2000
Compressing protocol headers has traditionally been an attractive way of conserving bandwidth over low-speed links, including those in wireless systems. However, despite the growth in recent years in the number of end-to-end protocols beyond TCP/IP, header compression deployment for those protocols has not kept pace. This is in large part due to complexities in implementation, which often requires a detailed knowledge of kernel internals, and a lack of a common way of pursuing the general p ...

11 Pavilion: a middleware framework for collaborative Web-based applications 100%
 P. K. McKinley , A. M. Malenfant , J. M. Arango
Proceedings of the international ACM SIGGROUP conference on Supporting group work November 1999
This paper describes Pavilion, an object-oriented middleware framework for developing collaborative web-based applications. Pavilion enables a developer to construct new applications by inheriting and extending its default functionality. Reusable and extensible Pavilion components include interfaces to common web browsers, a reliable multicast protocol tailored for delivery of web resources, a leadership protocol for floor control, and a highly modular proxy server that supports data type-s ...

12 Optimizing the end-to-end performance of reliable flows over wireless links 100%
 **A** Reiner Ludwig , Almudena Konrad , Anthony D. Joseph

Proceedings of the fifth annual ACM/IEEE international conference on Mobile computing and networking August 1999

13 BlueSky: a cordless networking solution for palmtop computers 100%
 **A** Pravin Bhagwat , Ibrahim Korpeoglu , Chatschik Bisdikian , Mahmoud Naghshineh , Satish K. Tripathi

Proceedings of the fifth annual ACM/IEEE international conference on Mobile computing and networking August 1999

14 Multi-layer tracing of TCP over a reliable wireless link 100%

 **A** Reiner Ludwig , Bela Rathonyi , Almudena Konrad , Kimberly Oden , Anthony Joseph

ACM SIGMETRICS Performance Evaluation Review , Proceedings of the international conference on Measurement and modeling of computer systems May 1999

Volume 27 Issue 1

15 High-speed policy-based packet forwarding using efficient 100%
 **A** multi-dimensional range matching

T. V. Lakshman , D. Stiliadis

ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication October 1998

Volume 28 Issue 4

The ability to provide differentiated services to users with widely varying requirements is becoming increasingly important, and Internet Service Providers would like to provide these differentiated services using the same shared network infrastructure. The key mechanism, that enables differentiation in a connectionless network, is the packet classification function that parses the headers of the packets, and after determining their context, classifies them based on administrative policies or re ...

16 Low-loss TCP/IP header compression for wireless networks 100%

 **A** Mikael Degermark , Mathias Engan , Björn Nordgren , Stephen Pink

Wireless Networks October 1997

Volume 3 Issue 5

Wireless is becoming a popular way to connect mobile computers to the Internet and other networks. The bandwidth of wireless links will probably always be limited due to properties of the physical medium and regulatory limits on the use of frequencies for radio communication. Therefore, it is necessary for network protocols to utilize the available bandwidth efficiently. Headers of IP packets are growing and the bandwidth required for transmitting headers is increasing. With the coming of I ...

17 System demonstrations: abstracts

100%



Marc Rittberger

Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval August 1996

18 TCP extensions for space communications

100%



Robert C. Durst , Gregory J. Miller , Eric J. Travis

Proceedings of the second annual international conference on Mobile computing and networking November 1996

19 Low-loss TCP/IP header compression for wireless networks

100%



Mikael Degermark , Mathias Engan , Björn Nordgren , Stephen Pink

Proceedings of the second annual international conference on Mobile computing and networking November 1996

20 A summary of TCP/IP networking software performance for the DECstation 5000

100%



Jonathan Kay , Joseph Pasquale

ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1993 ACM SIGMETRICS conference on Measurement and modeling of computer systems June 1993

Volume 21 Issue 1

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